

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: June 30, 2002, 16:12:28 ; Search time 415.2 Seconds

(without alignments)
1116.355 Million cell updates/sec

Title: US-09-303-518D-463

Perfect score: 1887

Sequence: 1 ttgsgcattcccgcaaat.....catatccattatgattgattg 1887

Scoring table:

IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 38353 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 100 summaries

Database :

Issued Patents_NA: *
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq: *
6: /cgn2_6/ptodata/1/ina/Backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|---------|----|-------------------|
| C 1 | 80.2 | 4.3 | 7218 | 1 | US-08-232-463-14 |
| C 2 | 45.2 | 2.4 | 390 | 4 | US-09-197-649-7 |
| C 3 | 41.8 | 2.2 | 816 | 2 | US-07-637-865-1 |
| C 4 | 39.8 | 2.1 | 289 | 4 | US-09-007-005-17 |
| C 5 | 39.8 | 2.1 | 289 | 4 | US-09-244-796-17 |
| C 6 | 38.6 | 2.0 | 4403765 | 4 | US-09-103-840A-2 |
| C 7 | 38.2 | 2.0 | 400 | 4 | US-09-056-556-179 |
| C 8 | 37 | 2.0 | 882 | 4 | US-08-818-112-138 |
| C 9 | 37 | 2.0 | 882 | 4 | US-08-818-111-133 |
| C 10 | 37 | 2.0 | 882 | 4 | US-09-056-556-138 |
| C 11 | 37 | 2.0 | 1155 | 2 | US-08-387-942C-21 |
| C 12 | 37 | 2.0 | 12588 | 2 | US-08-387-942C-21 |
| C 13 | 37 | 2.0 | 4403765 | 4 | US-09-103-840A-2 |
| C 14 | 37 | 2.0 | 4411529 | 4 | US-09-103-840A-1 |
| C 15 | 36.8 | 2.0 | 1155 | 2 | US-08-387-942C-7 |
| C 16 | 36.8 | 2.0 | 1155 | 2 | US-08-387-942C-18 |
| C 17 | 36.2 | 1.9 | 248 | 4 | US-09-007-005-32 |
| C 18 | 36.2 | 1.9 | 248 | 4 | US-09-244-796-32 |
| C 19 | 36.2 | 1.9 | 277 | 4 | US-09-007-005-3 |
| C 20 | 36.2 | 1.9 | 277 | 4 | US-09-244-796-3 |
| C 21 | 35.8 | 1.9 | 942 | 3 | US-08-732-412-1 |
| C 22 | 35.4 | 1.9 | 1155 | 2 | US-08-387-942C-20 |
| C 23 | 35.4 | 1.9 | 4411529 | 4 | US-09-103-840A-1 |
| C 24 | 35.4 | 1.9 | 44377 | 2 | US-08-804-227C-7 |
| C 25 | 35.2 | 1.9 | 44377 | 2 | US-08-804-198-1 |
| C 26 | 34.4 | 1.8 | 459 | 2 | US-08-387-942C-37 |
| C 27 | 34 | 1.8 | 453 | 2 | US-08-387-942C-38 |

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|-------|------|-----|-------|---|--------------------|-------------------|
| 28 | 34 | 1.8 | 5300 | 1 | US-08-766-014-1 | Sequence 1, Appl |
| C 29 | 33.8 | 1.8 | 12588 | 2 | US-08-387-942C-1 | Sequence 1, Appl |
| C 30 | 33.4 | 1.8 | 1228 | 4 | US-09-117-121-25 | Sequence 25, Appl |
| C 31 | 33.4 | 1.8 | 1729 | 4 | US-09-120-817-1 | Sequence 1, Appl |
| C 32 | 33.2 | 1.8 | 459 | 2 | US-08-387-942C-35 | Sequence 35, Appl |
| C 33 | 33.2 | 1.8 | 5118 | 4 | US-08-669-785-3 | Sequence 3, Appl |
| C 34 | 33 | 1.7 | 1176 | 2 | US-08-387-942C-17 | Sequence 17, Appl |
| C 35 | 32.8 | 1.7 | 1948 | 2 | US-07-849-438-1 | Sequence 1, Appl |
| C 36 | 32.8 | 1.7 | 9595 | 3 | US-09-014-416-4 | Sequence 4, Appl |
| C 37 | 32.6 | 1.7 | 2040 | 5 | US-08-599-252-103 | Sequence 103, App |
| C 38 | 32.6 | 1.7 | 2040 | 5 | PCT-US96-06352-103 | Sequence 103, App |
| C 39 | 32.6 | 1.7 | 2040 | 5 | PCT-US96-06583-103 | Sequence 103, App |
| C 40 | 32.4 | 1.7 | 1845 | 4 | US-09-029-603-5 | Sequence 5, Appl |
| C 41 | 32.4 | 1.7 | 2712 | 3 | US-09-025-691-4 | Sequence 4, Appl |
| C 42 | 32.2 | 1.7 | 549 | 4 | US-09-117-257-41 | Sequence 41, Appl |
| C 43 | 32.2 | 1.7 | 549 | 4 | US-09-489-352-41 | Sequence 41, Appl |
| C 44 | 32.2 | 1.7 | 13987 | 2 | US-08-804-227C-13 | Sequence 13, Appl |
| C 45 | 32 | 1.7 | 559 | 2 | US-08-948-197-2 | Sequence 2, Appl |
| C 46 | 32 | 1.7 | 2367 | 4 | US-09-056-556-201 | Sequence 201, App |
| C 47 | 32 | 1.7 | 6441 | 4 | US-08-669-785-1 | Sequence 1, Appl |
| C 48 | 32 | 1.7 | 6441 | 4 | US-08-669-785-1 | Sequence 1, Appl |
| C 49 | 32 | 1.7 | 6443 | 6 | US-09-117-121-29 | Sequence 29, Appl |
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| C 51 | 31.8 | 1.7 | 815 | 4 | US-08-818-111-134 | Sequence 139, App |
| C 52 | 31.8 | 1.7 | 815 | 4 | US-09-056-556-139 | Sequence 139, App |
| C 53 | 31.8 | 1.7 | 815 | 4 | US-08-865-597A-1 | Sequence 1, Appl |
| C 54 | 31.8 | 1.7 | 1549 | 2 | US-08-865-597A-1 | Sequence 1, Appl |
| C 55 | 31.8 | 1.7 | 2679 | 1 | US-07-977-434-11 | Sequence 11, Appl |
| C 56 | 31.8 | 1.7 | 2679 | 1 | US-08-458-819-11 | Sequence 11, Appl |
| C 57 | 31.8 | 1.7 | 2679 | 5 | PCT-US91-07035-11 | Sequence 11, Appl |
| C 58 | 31.6 | 1.7 | 22671 | 4 | US-08-976-259-14 | Sequence 14, Appl |
| C 59 | 31.6 | 1.7 | 701 | 4 | US-09-133-321-1 | Sequence 1, Appl |
| C 60 | 31.6 | 1.7 | 942 | 2 | US-08-446-806-2 | Sequence 2, Appl |
| C 61 | 31.6 | 1.7 | 942 | 4 | US-09-385-028-17 | Sequence 17, Appl |
| C 62 | 31.6 | 1.7 | 1298 | 3 | US-08-948-705-3 | Sequence 3, Appl |
| C 63 | 31.6 | 1.7 | 6854 | 4 | US-09-194-905-7 | Sequence 7, Appl |
| C 64 | 31.6 | 1.7 | 9660 | 3 | US-08-822-586-46 | Sequence 46, Appl |
| C 65 | 31.6 | 1.7 | 11604 | 4 | US-09-385-028-13 | Sequence 13, Appl |
| C 66 | 31.6 | 1.7 | 15079 | 4 | US-09-385-028-1 | Sequence 1, Appl |
| C 67 | 31.4 | 1.7 | 1869 | 3 | US-09-305-381-1 | Sequence 1, Appl |
| C 68 | 31.4 | 1.7 | 2064 | 1 | US-08-164-839-30 | Sequence 30, Appl |
| C 69 | 31.4 | 1.7 | 2064 | 1 | US-08-164-839-32 | Sequence 30, Appl |
| C 70 | 31.4 | 1.7 | 2064 | 1 | US-08-583-799-30 | Sequence 32, Appl |
| C 71 | 31.4 | 1.7 | 2064 | 1 | US-08-583-799-32 | Sequence 32, Appl |
| C 72 | 31.4 | 1.7 | 2081 | 4 | US-08-235-836C-67 | Sequence 67, Appl |
| C 73 | 31.4 | 1.7 | 2148 | 1 | US-08-164-839-69 | Sequence 69, Appl |
| C 74 | 31.4 | 1.7 | 2148 | 1 | US-08-164-839-71 | Sequence 71, Appl |
| C 75 | 31.4 | 1.7 | 2148 | 1 | US-08-583-799-69 | Sequence 69, Appl |
| C 76 | 31.4 | 1.7 | 2148 | 1 | US-08-583-799-71 | Sequence 71, Appl |
| C 77 | 31.4 | 1.7 | 3291 | 1 | US-08-021-601-1 | Sequence 1, Appl |
| C 78 | 31.4 | 1.7 | 3291 | 1 | US-08-082-849B-1 | Sequence 1, Appl |
| C 79 | 31.4 | 1.7 | 3291 | 5 | PCT-US94-01624-1 | Sequence 1, Appl |
| C 80 | 31.4 | 1.7 | 5609 | 4 | US-09-013-677-15 | Sequence 15, Appl |
| C 81 | 31.2 | 1.7 | 985 | 4 | US-09-056-556-182 | Sequence 182, App |
| C 82 | 31.2 | 1.7 | 1207 | 4 | US-08-648-736-1 | Sequence 1, Appl |
| C 83 | 31.2 | 1.7 | 1207 | 4 | US-08-992-035A-5 | Sequence 5, Appl |
| C 84 | 31 | 1.6 | 1485 | 2 | US-08-282-197C-1 | Sequence 1, Appl |
| C 85 | 31 | 1.6 | 20235 | 2 | US-07-642-734C-3 | Sequence 59, Appl |
| C 86 | 31 | 1.6 | 20235 | 3 | US-08-439-009A-3 | Sequence 3, Appl |
| C 87 | 31 | 1.6 | 535 | 4 | US-09-056-556-171 | Sequence 3, Appl |
| C 88 | 30.8 | 1.6 | 602 | 4 | US-09-268-564-9 | Sequence 17, App |
| C 89 | 30.8 | 1.6 | 3300 | 1 | US-08-194-290-6 | Sequence 9, Appl |
| C 90 | 30.8 | 1.6 | 3300 | 2 | US-08-614-377A-6 | Sequence 6, Appl |
| C 91 | 30.8 | 1.6 | 3300 | 2 | US-09-142-648B-6 | Sequence 6, Appl |
| C 92 | 30.8 | 1.6 | 3314 | 1 | US-07-973-324A-5 | Sequence 5, Appl |
| C 93 | 30.8 | 1.6 | 3314 | 1 | US-08-343-380-5 | Sequence 5, Appl |
| C 94 | 30.8 | 1.6 | 3314 | 1 | US-09-072-433-5 | Sequence 5, Appl |
| C 95 | 30.8 | 1.6 | 3314 | 4 | US-09-072-433A-5 | Sequence 5, Appl |
| C 96 | 30.8 | 1.6 | 15872 | 2 | US-08-530-290-8 | Sequence 8, Appl |
| C 97 | 30.6 | 1.6 | 237 | 2 | US-08-984-709A-51 | Sequence 51, Appl |
| C 98 | 30.6 | 1.6 | 1669 | 4 | US-08-470-260-4 | Sequence 4, Appl |
| C 99 | 30.6 | 1.6 | 5925 | 3 | | |
| C 100 | 30.6 | 1.6 | | | | |

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
;; STREET: P.O. BOX 747
;; CITY: FALLS CHURCH
;; STATE: VA
;; COUNTRY: USA
;; ZIP: 22042
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/387,942C
;; FILING DATE: 09-MAY-1995
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: MURPHY JR, GERALD M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1809-106P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-205-8000
;; TELEFAX: 703-205-8050
;; INFORMATION FOR SEQ ID NO: 21:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1155 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; US-08-387-942C-21

Query Match 2.0%; Score 37; DB 2; Length 1155;
Best Local Similarity 48.0%; Pred. No. 0.36; Indels 0; Gaps 0;
Matches 106; Conservative 0; Mismatches 115;

QY 342 tgaacgaacgcgtagtcggttgacggtatgaacgttaccgcatccattgagacgata 401
DB 444 TTACGGTTTCATCCGCGACGACGACGACATCACTGACGTCGCGACACCGTGGCCCA 503
QY 402 cgaacaccatccgcgcgacggtatgaacgagccacagggcggtgtatccgcctccaa 461
DB 504 CGACACACGGCTCGACGGCTTCGTGCGCGACTACCAAGTCGCGGGGTGTTCGAGAACAA 563
QY 462 aggcgcgagggatataacagctacgacataaaggcggtgccaataatccgcctcaa 521
DB 564 CGTCTCGTACACACGACGCGCCACGCGCTTACACATGCTCACGACACGACGACTTCT 623
QY 522 cctgaccgacacacgcgacgacgacaaaggcttgcgcgacc 562
DB 624 CCGAGCAACACGCTCGCTACGGCAACGCGGCGCGCGGCC 664

RESULT 12
US-08-387-942C-1
; Sequence 1, Application US/08387942C
; Patent No. 5939289
; GENERAL INFORMATION:
; APPLICANT: ERTESVAG, HELGA
; APPLICANT: VALLA, SVEIN
; APPLICANT: SKJAK-BRAEK, GUDMUND
; APPLICANT: LARSEN, BJORN
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22042

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/387,942C
;; FILING DATE: 09-MAY-1995
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: MURPHY JR, GERALD M.
;; REGISTRATION NUMBER: 28,977
;; REFERENCE/DOCKET NUMBER: 1809-106P
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 703-205-8000
;; TELEFAX: 703-205-8050
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 12588 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; ORIGINAL SOURCE:
;; ORGANISM: Azotobacter vinelandii
;; STRAIN: E
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 290..1951
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 2227..6438
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 6702..9695
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 9973..12588
;; US-08-387-942C-1

Query Match 2.0%; Score 37; DB 2; Length 12588;
Best Local Similarity 48.0%; Pred. No. 1.6; Indels 0; Gaps 0;
Matches 106; Conservative 0; Mismatches 115;

QY 342 tgaacgaacgcgtagtcggttgacggtatgaacgttaccgcatccattgagacgata 401
DB 10416 TTACGGTTTCATCCGCGACGACGACGACATCACTGACGATCCGCGACGCGTGGCCCA 10475
QY 402 cgaacaccatccgcgcgacggtatgaacgagccacagggcggtgtatccgcctccaa 461
DB 10476 CGACACACGGCTCGACGGCTTCGTGCGCGACTACCAAGTCGCGGGGTGTTCGAGAACAA 10535
QY 462 aggcgcgagggatataacagctacgacataaaggcggtgccaataatccgcctcaa 521
DB 10536 CGTCTCGTACACACGACGCGCCACGCGCTTACACATGCTCACGACACGACGACTTCT 10595
QY 522 cctgaccgacacacgcgacgacgacaaaggcttgcgcgacc 562
DB 10596 CCGAGCAACACGCTCGCTACGGCAACGCGGCGCGGCC 10636

RESULT 13
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS

Db 127 tgrcturgrcgruratararcrgrurgrurgratararcrgrurgratararcr 186
Qy 1678 gtgaacacgaaaaagtggtggaag 1702
Db 187 tcratararcrgrgratararcr 211

RESULT 21

US-08-732-412-1/c
; Sequence 1, Application US/08732412
; Patent No. 601786
; GENERAL INFORMATION:
; APPLICANT: Aehle, Wolfgang
; APPLICANT: Gerltse, Gijshert
; APPLICANT: Lenting, Hermannus
; TITLE OF INVENTION: LIPASES WITH IMPROVED
; TITLE OF INVENTION: SURFACTANT RESISTANCE
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International, Inc.
; STREET: 925 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1013
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/732,412
; FILING DATE: 22-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/01687
; FILING DATE: 28-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94201253.5
; FILING DATE: 04-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Stone, Christopher L.
; REGISTRATION NUMBER: 35,696
; REFERENCE/DOCKET NUMBER: GC307-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-846-7620
; TELEFAX: 650-845-6504
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 942 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-732-412-1

Query Match 1.9%; Score 35.8; DB 3; Length 942;

Best Local Similarity 46.6%; Pred. No. 0.74; Mismatches 132; Indels 0; Gaps 0;

Matches 115; Conservative 0; Mismatches 132; Indels 0; Gaps 0;
Qy 903 tgcgcacaaagcatagaaccgtcagcatatctttagcagccatcccatcaaaag 962
Db 691 TGCCCTCCAGAGTAGTAGAGCGCATTCGACCTGTAGCGCCCTTCGCGAGGAC 632
Qy 963 gatggagctgtccggggaaaaataagcttggcgccatcaaggcaactctgtcaagcg 1022
Db 631 TGGTGGAGATCCCTGCGGATCTTGGGCTTGAAGCGCGCGCCCTCACTGTTGAGCG 572
Qy 1023 gtccgagtgaggcgagcatgtccgaaaggaatccgcgcgtcagcgcaattttgc 1082
Db 571 ATTGAGGCGCCCGAGGCGCTTTCGCGGCTGTGCTGAGCTCGGAGAGGAGTTGA 512
Qy 1083 cgatgcgcatagcacaataaccggtcccttaccatcccgaaatccgttcaact 1142

Db 511 TCAGCGCGCCAGCGCGTTGACGATCGCGGACATATCGCTACCGCGCGCGG 452
Qy 1143 ggaagcag 1149
Db 451 GGATCTG 445

RESULT 22

US-08-387-942C-20
; Sequence 20, Application US/08387942C
; Patent No. 5939289
; GENERAL INFORMATION:
; APPLICANT: ERTESVAG, HELGA
; APPLICANT: VALLA, SVEIN
; APPLICANT: SKJAK-BRAEK, GUDMUND
; APPLICANT: LARSEN, BJORN
; TITLE OF INVENTION: DNA COMPOUNDS COMPRISING SEQUENCES
; TITLE OF INVENTION: ENCODING MANNURONAN C-5-EPIMERASE
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH & BIRCH, LLP
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22042
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,942C
; FILING DATE: 09-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1809-106P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1155 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-387-942C-20

Query Match 1.9%; Score 35.4; DB 2; Length 1155;

Best Local Similarity 47.5%; Pred. No. 1.1; Mismatches 116; Indels 0; Gaps 0;

Matches 105; Conservative 0; Mismatches 116; Indels 0; Gaps 0;
Qy 342 tgcagaaagcgtatccgttgaagatcagcctttaccgcatcatgtggaagata 401
Db 444 TTACGGTTTGATCCGACGACGACGACATCAACCTGAGAGATCCGAGAGGTGCCA 503
Qy 402 cgaacacatccgcgcagcgtatagcggccacagagcgcggtatccgcctccaa 461
Db 504 CGACACAGCGCTCGAGCGCTTCGTCGCCGATTTCCAGATCGCGGCGGTGTTGAGACAA 563
Qy 462 aggcgcagagatataacagctacgacataaaagcgtttgcccaaatatccgctcaa 521
Db 564 CGTCTGTACACACAGACGCGCGCTTCAACATCGTCACACAGCACCAAGACTTGT 623
Qy 522 cctgacgcaaacgcgacagcagcaagcgcttgcgcac 562
Db 624 CCTGAGCAACACAGTCGCTTACGCAACGCGCGCGCGCGCC 664

RESULT 23
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103.840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 1.9%; Score 35.4; DB 4; Length 4411529;
Best Local Similarity 44.2%; Pred. No. 53;
Matches 174; Conservative 0; Mismatches 220; Indels 0; Gaps 0;

QY 343 gacgaagccggtatccgcttgaagatcagccttaccgcatccattggagcgataac 402
DB 3449456 ggcacaaagcgttaacgagcgaagacagcggttcggtgagcgccagcccg 3449515
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DB 3449516 ttgcgcgagcccgcccgaggaagcgggcgcgccgacccgacccgagcgacc 3449575
QY 463 ggcgcgaggtatatacagctacgacataaaggcggttgcacaaatatacgcctaac 522
DB 3449576 aacgctcgcgagcgagcgagcgagcgacgaagcgagcggtgtcgtgcatcagc 3449635
QY 523 ctgacgcgaacacgacgacgacgacgacgacgacgacgacgacgacgacgacgac 582
DB 3449636 ttgcgacgagcgaacgacgacgacgacgacgacgacgacgacgacgacgacgac 3449695
QY 583 atgctgacgacgaggtagcgacgacgacgacgacgacgacgacgacgacgacgac 3449755
DB 3449696 gacgagcgaacgacgacgacgacgacgacgacgacgacgacgacgacgacgac 3449755
QY 643 gacgaatcgagcgaatcgagcgacgaagcctcaacgacgacgacgacgacgacgac 702
DB 3449756 ggcgagcagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 3449815
QY 703 atcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgag 736
DB 3449816 accgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcgagcg 3449849

RESULT 24
US-08-804-227C-7/C
; Sequence 7, Application US/08804227C
; Patent No. 5876991
; GENERAL INFORMATION:
; APPLICANT: Dehoff, Bradley S.
; APPLICANT: Kuntz, Stuart A.
; APPLICANT: Rostock, Paul R., Jr.
; APPLICANT: Sutton, Kimberly L.
; TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THOMAS G. PLANT 1501
; STREET: LILLY CORPORATE CENTER
; CITY: INDIANAPOLIS

STATE: IN
COUNTRY: USA
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: ASCII(DOS) Text only
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/804,227C
FILING DATE: February 21, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Plant, Thomas, G.
REGISTRATION NUMBER: 35,784
REFERENCE/DOCKET NUMBER: X-8231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 317-276-2459
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 44377 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 350..14002
FEATURE:
NAME/KEY: CDS
LOCATION: 14046..20036
FEATURE:
NAME/KEY: CDS
LOCATION: 20110..31284
FEATURE:
NAME/KEY: CDS
LOCATION: 31329..36071
FEATURE:
NAME/KEY: CDS
LOCATION: 36155..41830
US-08-804-227C-7

Query Match 1.9%; Score 35.2; DB 2; Length 44377;
Best Local Similarity 46.7%; Pred. No. 12;
Matches 112; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

QY 408 ccattccgagcgagcgtatagcgagcgagcgagcgagcgagcgagcgagcgagcgag 467
DB 18582 CCGTCCGCGTGGCGCGCGTCCCGCGCGTGGGAGGAGGCGTGGCGCACCGGAGCG 18523
QY 468 gaagatatatacagctacgacataaaggcggttgcacaaatatacgcctcaactgac 527
DB 18522 GCGGAGCGGAGCACGCTCCGCGCGCACGCGCACGCTGCGGATCGGTGCCAGCAG 18463
QY 528 cgacaacgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 587
DB 18462 CCGGAGCGGAGCACGCTCCGCGCGCACGCGCACGCTGCGGATCGGTGCCAGCAG 18403
QY 588 gacgagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 647
DB 18402 GCTGTTCGCGTGGCGAGCGCGGAGCGAGCGAGCGAGCGAGCGAGCGAGCGAGCG 18343

RESULT 25
US-08-804-198-1/C
; Sequence 1, Application US/08804198
; Patent No. 5945320
; GENERAL INFORMATION:
; APPLICANT: Burgett, Stanley G.
; APPLICANT: Kuntz, Stuart A.
; APPLICANT: Rao, Nagara R.
; APPLICANT: Richardson, Mark A.

STREET: P.O. BOX 747
CITY: FALLS CHURCH
STATE: VA
COUNTRY: USA
ZIP: 22042
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/387,942C
FILING DATE: 09-MAY-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR, GERALD M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1809-106P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-205-8000
TELEFAX: 703-205-8050
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 12588 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Azotobacter vinelandii
STRAIN: E
FEATURE:
NAME/KEY: CDS
LOCATION: 290..1951
FEATURE:
NAME/KEY: CDS
LOCATION: 2227..6438
FEATURE:
NAME/KEY: CDS
LOCATION: 6702..9695
FEATURE:
NAME/KEY: CDS
LOCATION: 9973..12588
US-08-387-942C-1

Query Match 1.8%; Score 33.8; DB 2; Length 12588;
Best Local Similarity 48.6%; Pred. No. 14; Mismatches 127; Indels 3; Gaps 1;
Matches 123; Conservative 0;

QY 528 cgacaaccgcagacacgagcaacgagcttgcgcgacgtttccacaattgcgagcgtatgct 587
DB 8559 CGCCACACGGCAAGTCGGCGATGCGGTCGCCCTGTGTGTCGCCCATGTCGAGTTGGCT 8500
QY 588 gacgcaaggaatgagcgacgagatcacaacgcg---ccaaccgatacagcccgagctgga 644
DB 8499 GGCCTGTGGAGAGCGCGTCGAAGCGGAACAGTCCGCGCGCCCGCGTGAGCGCTGT 8440
QY 645 cagctcgaggcaatgcgcgcggaagccttcaagcgacgtcagatctgtaaaaaatcat 704
DB 8439 CGCGCCCGCGCCCGCCACACAGATGTCGTCGCCCGCCCGCGCTGTCGTTGC 8380
QY 705 cggcgcgagcagagaaattgtcgcgcagagcgatgcgtcgaaggtataagcgaagctc 764
DB 8379 CGCGGTGGCCGAGCAATGTCTCGCGCGCGGCGGAGTACGAGCAGCGCGCTTGTCCGCGGCAT 8320
QY 765 aaacatgctc 777
DB 8319 CCCCCGTGATGC 8307

RESULT 30
US-09-117-121-25

Sequence 25, Application US/09117121
Patent No. 6307020
GENERAL INFORMATION:
APPLICANT: Hew, Choy
APPLICANT: Gong, Zhilyuan
TITLE OF INVENTION: Intracellular Antifreeze Polypeptides
TITLE OF INVENTION: and Nucleic Acids
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/117,121
FILING DATE: 20-NOV-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/CA97/00062
FILING DATE: 30-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 016252-001610US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 228 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 20..136
OTHER INFORMATION: /product= "sAFP6 (L4)"
OTHER INFORMATION: /note= "skin-type antifreeze
OTHER INFORMATION: polypeptide 6 (sAFP6)"
US-09-117-121-25

Query Match 1.8%; Score 33.4; DB 4; Length 228;
Best Local Similarity 57.0%; Pred. No. 1.6; Mismatches 46; Indels 0; Gaps 0;
Matches 61; Conservative 0;

QY 636 cgaagctggaagaatgcgcgcggaagccttcaagcgacgtcagatgcatcga 695
DB 16 CAACATGAGACGACGCAAGCCCGCGCAGCAGCAGCGCGCGCGCAAGCGCGCGC 75
QY 696 aaacatcattcgcgcgcgaggaattgtcgcgcgagcgatgcg 742
DB 76 AGAAGCCACCGCGCGCGCAGCTGCCAAGCAGCAGCGCCACCAAGCGCGC 122

RESULT 31
US-09-120-817-1
Sequence 1, Application US/09120817
Patent No. 6172184
GENERAL INFORMATION:
APPLICANT: Colmer, Alan
APPLICANT: Charkowski, Amy
APPLICANT: Alfano, James R.
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICTOR FROM
PSEUDOMONAS SYRINGAE AND ITS USE

STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/06352
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/599,252
FILING DATE: 09-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 9053-0001.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 2040 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US96-06352-103

Query Match 1.7%; Score 32.6; DB 5; Length 2040;
Best Local Similarity 52.6%; Pred. No. 11;
Matches 71; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
QY 1583 gtgtgtacgggtgatacaaaacccctgagcactgataaagtggtttatcaagca 1642
DB 943 gtaattatcatgtaataaaaaaattcacaagctgtatatacatgtaaaagacatctctg 1002
QY 1643 cagtggaattaaagccttgatggaagtggaagtggaagtggaagtggaagtggaag 1702
DB 1003 GAAGGAAGAAAGAAAGAAATAGAGAAAGAGAGAAAGAAAGAAAGAAAGAAAGAAAG 1062
QY 1703 tgatgaccaagcaca 1717
DB 1063 AAGGAAGAAAGAAAGAA 1077

RESULT 39
PCT-US96-06583-103
Sequence 103, Application PC/TUS9606583
GENERAL INFORMATION:
APPLICANT: DRAVNA, DENNIS T.
APPLICANT: FEDER, JOHN N.
APPLICANT: GNIKE, ANDREAS
APPLICANT: KIMMEL, BRUCE E.
APPLICANT: THOMAS, WINSTON J.
APPLICANT: WOLFF, ROGER K.
TITLE OF INVENTION: METHOD TO DIAGNOSE HEREDITARY
TITLE OF INVENTION: HEMOCHROMATOSIS
NUMBER OF SEQUENCES: 124
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Suite 5500
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/06583
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/599,252
FILING DATE: 09-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 9053-0001.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 2040 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US96-06583-103

Query Match 1.7%; Score 32.6; DB 5; Length 2040;
Best Local Similarity 52.6%; Pred. No. 11;
Matches 71; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
QY 1583 gtgtgtacgggtgatacaaaacccctgagcactgataaagtggtttatcaagca 1642
DB 943 gtaattatcatgtaataaaaaaattcacaagctgtatatacatgtaaaagacatctctg 1002
QY 1643 cagtggaattaaagccttgatggaagtggaagtggaagtggaagtggaagtggaag 1702
DB 1003 GAAGGAAGAAAGAAAGAAATAGAGAAAGAGAGAAAGAAAGAAAGAAAGAAAGAAAG 1062
QY 1703 tgatgaccaagcaca 1717
DB 1063 AAGGAAGAAAGAAAGAA 1077

RESULT 40
US-09-029-603-5
Sequence 5, Application US/09029603
Patent No. 6210935
GENERAL INFORMATION:
APPLICANT: Schupp, Thomas
APPLICANT: Engel, Natalie
APPLICANT: Bietenader, Jurg
APPLICANT: Toupet, Christine
APPLICANT: Pospisich, Andreas
TITLE OF INVENTION: Statinsporin Biosynthesis Gene Clusters
FILE REFERENCE: 4-20555/A/PT
CURRENT APPLICATION NUMBER: US/09/029,603
CURRENT FILING DATE: 1998-03-20
EARLIER APPLICATION NUMBER: PCT/EP96/03643
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 5
LENGTH: 1845
TYPE: DNA
ORGANISM: Streptomyces longisporoflavus
US-09-029-603-5

Query Match 1.7%; Score 32.4; DB 4; Length 1845;
Best Local Similarity 43.9%; Pred. No. 12;
Matches 138; Conservative 0; Mismatches 176; Indels 0; Gaps 0;

Mon Jul 1 09:25:49 2002

us-09-303-518d-463.rn

| | | | | | | | | | | |
|----|-----|------------|-----------|-----------|----------|----------|----------|----------|------------|-----|
| Qy | 693 | caaaaacatc | atcgcgcg | cgcgcagga | agaatatt | tcgcgcgc | agcgatgc | ccgctg | aagggtat | 752 |
| | | | | | | | | | | |
| Db | 237 | CAAAACAGT | TAATGAG | GGGGAAC | AGGCGCTT | ATCTCGG | AGTCTCTT | GGAAATTC | ACTTTGG | 178 |
| Qy | 753 | aagcgaag | gcctcaaac | attgtct | catcgcac | gcgcgttg | ctgtctgt | ctttcc | accgaaaaca | 812 |
| | | | | | | | | | | |
| Db | 177 | CATAAACT | CTCAATC | TGATGAC | AACTCCAC | TCCATCGC | ATTCCTTC | CAACTGA | AACACAA | 118 |
| Qy | 813 | gatgcgcg | catcaca | agatttgc | agataltg | | | | | 844 |
| | | | | | | | | | | |
| Db | 117 | TGCGGTG | ATCTCA | ATAGCA | CGTGGCA | ATCG | | | | 86 |

Search completed: June 30, 2002, 21:02:21
Job time: 86666 sec